



## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 19 80 29 21

Classification of the application (IPC):  
C07K 16/28, A61P 31/14, A61P 35/00

Technical fields searched (IPC):  
A61P, C07K

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	US 2015157711 A1 (SAHIN UGUR [DE] ET AL) 11 June 2015 (2015-06-11) * throughout; [0007], [0186], [0187] *	1-15
X	US 2016333109 A1 (SAHIN UGUR [DE] ET AL) 17 November 2016 (2016-11-17) * [0007], [0010], [0263] *	1-15
X	EP 2311877 A2 (GANYMED PHARMACEUTICALS AG [DE] ET AL.) 20 April 2011 (2011-04-20) * [0009], [0014], [0031] *	1-15
X	US 2018055944 A1 (LU YUEFENG [US] ET AL) 01 March 2018 (2018-03-01) * [0129], claim 16(t)(u), 17(t)(u) *	1-15
T	<b>BAUMHOLTZ AMANDA I. ET AL:</b> "Functional Validation of CLDN Variants Identified in a Neural Tube Defect Cohort Demonstrates Their Contribution to Neural Tube Defects" <i>FRONTIERS IN NEUROSCIENCE</i> CH 14 July 2020 (2020-07-14), vol. 14, DOI: 10.3389/fnins.2020.00664, ISSN: 1662-4548, XP055881722 * table 1 *	

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search Munich	Date of completion of the search 20 January 2022	Examiner Wimmer, Georg
---------------------------	---	---------------------------

### CATEGORY OF CITED DOCUMENTS

X: particularly relevant if taken alone	P: intermediate document
Y: particularly relevant if combined with another document of the same category	T: theory or principle underlying the invention
A: technological background	E: earlier patent document, but published on, or after the filing date
O: non-written disclosure	D: document cited in the application
& : member of the same patent family, corresponding document	L: document cited for other reasons

Disclaimer: this document has been automatically generated using data structured in accordance with WIPO standard ST.36 from the database of search reports of the European Patent Office. For technical reasons, its content and layout may differ from that of the original publication. Only the original published information is legally binding.



## ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 19 80 29 21

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 20-01-2022.  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
US 2015157711	A1	11-06-2015	AR 091131 A1	14-01-2015
		AU 2013265637 A1	20-11-2014	
		AU 2018201856 A1	12-04-2018	
		AU 2020203557 A1	18-06-2020	
		BR 112014028941 A2	25-10-2016	
		CA 2874028 A1	28-11-2013	
		CN 104427999 A	18-03-2015	
		CN 107050460 A	18-08-2017	
		CN 107412773 A	01-12-2017	
		ES 2784855 T3	01-10-2020	
		HK 1208151 A1	26-02-2016	
		HK 1247567 A1	28-09-2018	
		IL 235672 A	31-08-2020	
		JP 6203830 B2	27-09-2017	
		JP 6490763 B2	27-03-2019	
		JP 6833885 B2	24-02-2021	
		JP 2015518838 A	06-07-2015	
		JP 2018002724 A	11-01-2018	
		JP 2019104747 A	27-06-2019	
		JP 2021080262 A	27-05-2021	
		KR 20150027112 A	11-03-2015	
		KR 20200140387 A	15-12-2020	
		MX 367241 B	09-08-2019	
		NZ 701575 A	28-10-2016	
		RU 2014152107 A	10-07-2016	
		RU 2018124328 A	12-03-2019	
		SG 10201609510U A	29-12-2016	
		SG 11201406963R A	30-12-2014	
		UA 115985 C2	25-01-2018	
		US 2015157711 A1	11-06-2015	
		US 2016339101 A1	24-11-2016	
		US 2018326059 A1	15-11-2018	
		US 2020390887 A1	17-12-2020	
		WO 2013174404 A1	28-11-2013	
WO 2013174509 A1	28-11-2013			
US 2016333109	A1	17-11-2016	AR 090973 A1	17-12-2014
		AU 2013258432 A1	30-10-2014	
		AU 2017216513 A1	31-08-2017	
		AU 2019222874 A1	19-09-2019	
		BR 112014026755 A2	11-07-2017	
		CA 2869725 A1	14-11-2013	
		CN 104321345 A	28-01-2015	
		CN 108047331 A	18-05-2018	
		DK 2847225 T3	20-01-2020	



## ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 19 80 29 21

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 20-01-2022.  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
		EP 2847225 A1	18-03-2015
		EP 3666796 A1	17-06-2020
		ES 2763965 T3	01-06-2020
		HK 1202557 A1	02-10-2015
		HR P20192347 T1	03-04-2020
		HU E049171 T2	28-09-2020
		IL 235261 A	28-02-2021
		JP 6232646 B2	22-11-2017
		JP 6514294 B2	15-05-2019
		JP 6878491 B2	26-05-2021
		JP 2015517476 A	22-06-2015
		JP 2018052934 A	05-04-2018
		JP 2019172675 A	10-10-2019
		JP 2021138700 A	16-09-2021
		KR 20150008095 A	21-01-2015
		KR 20210124501 A	14-10-2021
		LT 2847225 T	11-05-2020
		MX 369740 B	20-11-2019
		NZ 700823 A	29-07-2016
		NZ 718280 A	27-04-2018
		NZ 738493 A	29-10-2021
		PL 2847225 T3	18-05-2020
		PT 2847225 T	16-01-2020
		RU 2014149332 A	27-06-2016
		SG 10201606048P A	29-09-2016
		SG 11201406472W A	27-11-2014
		SI 2847225 T1	31-03-2020
		UA 116445 C2	26-03-2018
		US 2015147763 A1	28-05-2015
		US 2016333109 A1	17-11-2016
		US 2018319891 A1	08-11-2018
		WO 2013167153 A1	14-11-2013
		WO 2013167259 A1	14-11-2013
		ZA 201407336 B	27-07-2016
EP 2311877	A2	20-04-2011	
		AU 2006316767 A1	31-05-2007
		BR PI0618920 A2	27-09-2011
		CA 2628126 A1	31-05-2007
		CA 2886580 A1	31-05-2007
		CA 3058722 A1	31-05-2007
		CN 101312989 A	26-11-2008
		CN 103509110 A	15-01-2014
		CN 103509114 A	15-01-2014
		CY 1114050 T1	27-07-2016
		CY 1116964 T1	05-04-2017



## ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 19 80 29 21

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 20-01-2022.  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
		CY 1117031 T1	05-04-2017
		CY 1119290 T1	14-02-2018
		CY 1121002 T1	11-12-2019
		DK 1948693 T3	10-06-2013
		DK 2311877 T3	16-11-2015
		DK 2311878 T3	04-01-2016
		DK 2311879 T3	11-09-2017
		DK 2325210 T3	29-10-2018
		DK 3312197 T3	11-11-2019
		DK 3421498 T3	14-02-2022
		DK 3656793 T3	07-03-2022
		EP 1790664 A1	30-05-2007
		EP 1948693 A1	30-07-2008
		EP 2295469 A2	16-03-2011
		EP 2311877 A2	20-04-2011
		EP 2311878 A2	20-04-2011
		EP 2311879 A2	20-04-2011
		EP 2325210 A1	25-05-2011
		EP 3312197 A1	25-04-2018
		EP 3421498 A1	02-01-2019
		EP 3656793 A1	27-05-2020
		ES 2407819 T3	14-06-2013
		ES 2550027 T3	04-11-2015
		ES 2555979 T3	12-01-2016
		ES 2642688 T3	17-11-2017
		ES 2689746 T3	15-11-2018
		ES 2757498 T3	29-04-2020
		HK 1119721 A1	13-03-2009
		HK 1151305 A1	27-01-2012
		HK 1151535 A1	03-02-2012
		HK 1246320 A1	07-09-2018
		HK 1257914 A1	01-11-2019
		HR P20130451 T1	30-06-2013
		HR P20151136 T1	01-01-2016
		HR P20151257 T1	15-01-2016
		HR P20171337 T1	03-11-2017
		HR P20181565 T1	14-12-2018
		HR P20191968 T1	24-01-2020
		HU E025578 T2	28-04-2016
		HU E025900 T2	30-05-2016
		HU E034777 T2	28-02-2018
		HU E041538 T2	28-05-2019
		HU E048404 T2	28-07-2020
		JP 5933157 B2	08-06-2016
		JP 6085148 B2	22-02-2017



## ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 19 80 29 21

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 20-01-2022.  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
		JP 6086894 B2	01-03-2017
		JP 6261650 B2	17-01-2018
		JP 2009517354 A	30-04-2009
		JP 2013079241 A	02-05-2013
		JP 2015083579 A	30-04-2015
		JP 2016196467 A	24-11-2016
		KR 20080090403 A	08-10-2008
		KR 20140018386 A	12-02-2014
		KR 20140106732 A	03-09-2014
		KR 20160081988 A	08-07-2016
		KR 20170125131 A	13-11-2017
		KR 20180126091 A	26-11-2018
		KR 20200039015 A	14-04-2020
		LT 2311879 T	25-09-2017
		LT 2325210 T	12-11-2018
		LT 3312197 T	11-11-2019
		LT 3421498 T	10-03-2022
		LT 3656793 T	10-03-2022
		ME 03608 B	20-07-2020
		MX 339682 B	06-06-2016
		PL 1948693 T3	30-08-2013
		PL 2311877 T3	29-01-2016
		PL 2311878 T3	29-02-2016
		PL 2311879 T3	30-03-2018
		PL 2325210 T3	31-12-2018
		PL 3312197 T3	31-03-2020
		PL 3421498 T3	28-02-2022
		PL 3656793 T3	28-03-2022
		PT 1948693 E	05-06-2013
		PT 2311877 E	18-11-2015
		PT 2311878 E	26-01-2016
		PT 2311879 T	11-09-2017
		PT 2325210 T	07-11-2018
		PT 3312197 T	26-11-2019
		PT 3421498 T	19-01-2022
		PT 3656793 T	08-03-2022
		RS 52790 B	31-10-2013
		SG 10201405134W A	30-10-2014
		SG 10201903351S A	30-05-2019
		SI 1948693 T1	31-07-2013
		SI 2311877 T1	31-12-2015
		SI 2311878 T1	29-01-2016
		SI 2311879 T1	30-10-2017
		SI 2325210 T1	30-11-2018
		SI 3312197 T1	31-12-2019



## ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 19 80 29 21

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 20-01-2022.  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
			US 2009169547 A1	02-07-2009
			US 2012164160 A1	28-06-2012
			US 2012195830 A1	02-08-2012
			US 2015252103 A1	10-09-2015
			US 2015252104 A1	10-09-2015
			US 2016185860 A1	30-06-2016
			US 2018127489 A1	10-05-2018
			US 2020385448 A1	10-12-2020
			WO 2007059997 A1	31-05-2007
-----				
US 2018055944	A1	01-03-2018	US 2018055944 A1	01-03-2018
			WO 2018026742 A1	08-02-2018